INTERNATIONAL BULLETIN
OF PLANT PROTECTION

1932 No. 8

DISCOVERIES AND CURRENT EVENTS *

French North Africa: Desert Locust (*Schistocerca gregaria*) (1).

ALGERIA.

1 May 1932 — Isolated locusts were driven by violent southerly winds into the communes of Boghari, Corneille, Reibell, Oued Marsa, Aïn-Bessem.

A swarm coming from the S. settled on 400 ha in the douar of Metkaouak (Barika).

A small swarm coming from the S. settled in the douar of Magra (Barika).

A small swarm flying S.-E. was reported 80 km S.-W. of Mecheria.

Hatchings 12 km N.-N.-W. of Ghardaïa.

2 » » — Small swarm 40 km S.-E. of M'Sila.

Small swarms on the douars of M'doukal and Ouled Si Slimane of Barika.

A small swarm settled in the douar of Mella (Khenchela) and then departed.

A swarm coming from the S.-W. alighted in the douar of Briket (Mac-Mahon), laid and departed towards the N.-E.

3 » » — A small swarm flying N. passed 40 km from Mecheria.

A swarm coming from the S.-W. settled in the douar of Ouled Absi and departed next day towards the S.

A swarm coming from the S.-W. was reported in the douar of Oued Taga (Arris).

A swarm coming from the S.-W. passed over the douar of Ichmoul (Arris).

Hatchings 13 km S. and 5 km E. of El Goléa.

4 » » — A swarm coming from the W. alighted in the douar of Melagon and departed on 5th towards the douar of Tamza.

A swarm settled in the douar of Tamza of Khenchela.

A swarm coming from the W. was reported in the douar Bouzina of Arris.

A swarm coming from the S. alighted in the douar of Metkaoua Remel, laid over 300 ha and departed on 5th.

* In this, as in the next chapter, the countries are arranged in French alphabetical order.

(1) Communication from the Government General of Algeria (Direction des Services Economiques) to the International Institute of Agriculture.

5 May 1932 — A swarm coming from the W. settled in the douar Chelia of Khenchela.

A small swarm from the S. at Sidi Aïch, departed towards the S.

A small swarm coming from the S. alighted in the douar of Bitam (Barika) on 80 ha and departed on 6th towards the N.

Swarm at 40 km S.-E. of Aumale; departed on 6th.

6 » » — A small swarm reported in the commune of Akbou.

A swarm covering 2 ha settled in the douar of Dra Kebila of Lafayette.

Some isolated locusts observed over the commune of Sidi-Aïssa.

Migrating hoppers 10 km E.-S-E- of Ghardaïa.

7 » » — A swarm settled in the douar Dra el Caïd of Lafayette. Laying

A large swarm passed over the douar of Yabous (Khenchela).

A small swarm 6 km S.-W of Kerrata.

A large swarm alighted in the douar of Taouzient and departed.

A small swarm settled in the douar of Bitam (Barika) and laid.

Migrating hoppers 10 km S.-E. of Ghardaïa.

8 » » — A swarm coming from the W. settled on 30 ha in the douar of M'doukal (Barika).

A swarm coming from the S. settled in the douar of M'doukal (Barika).

A swarm settled and laid over 3 ha in the douar of Metkaouak (Barika).

Migrating hoppers 58 km S. and 32 km S. Ghardaïa.

9 » » — A small swarm alighted in the douar of Memgada and departed on 10th.

A large swarm coming from the S.-W. passed 10 km S.-W. of Géryville.

Various movements of swarms reported from Corneille.

A small swarm coming from the S. settled 12 km from Kerrata. Copulation.

A swarm coming from the E. settled in the douar of Zelatou (Arris) and laid.

Layings over 2 ha at Périgotville.

10 » » — A small swarm coming from the S. alighted 23 km E. of Géryville and departed on 11th towards the N.

Layings over 2 ha in the douar of Metkaouak (Barika).

Dense layings in the douar of M'Cif (M'Sila).

Migrating hoppers 40 km N. and 85 km N.-N.-E. of Ghardaïa.

11 » » — A swarm 1 km in length coming from the S.-E. settled in the douar of Ouled Sliman (Bou-Saâda) and laid.

A swarm coming from the S.-E. settled in the douar of Ouled Khaled (Bou-Saâda).

Relatively large swarms coming from the S. and W. settled 10-29 km S.-E. and E. of Laghouat.

12 May 1932 — Swarms coming from the S. laid in the douar of M'doukal over 100 ha.

Laying at M'doukal (Barika).

13 » » — A small swarm settled 97 km S.-W. of Géryville.

A swarm coming from the S. settled at Laghouat, region E. to S.

Hatchings reported in the douars of Branis and El Outaya (Mac-Mahon).

Migrating hoppers 18 km N.-E. of Ghardaïa.

14 » » — A swarm covering 100 ha coming from the S. circled over the douars of Slamates and Sidi Hadjères (Sidi-Aïssa).

A swarm coming from the S. laid over 2 ha in the douar of Bitam (Barika).

A swarm coming from the W. settled in the douar of Kimmel (Arris.)

A large swarm coming from the S. alighted 120 km N. (Géryville) and departed on 16th towards the E.

15 » » — A medium-sized swarm settled in the douar of Saïda (M'sila) and laid over 50 ha.

Migrating hoppers 13 km S.-E. and 9 km S.-E. of Ghardaïa.

16 » » — A swarm alighted in the douar of Ouled Khaled (Bou-Saâda) on 70 ha and departed on 19th.

Laying in the douar of Kimmel (Arris).

17 » » — A medium-sized swarm coming from the S.-W. settled in the douar of Marcounda.

A swarm from the N. passed over the douar of Ouled Slimane (Barika).

A swarm from the S. settled and laid over 3 ha in the douar of M'doukal (Barika).

Swarms coming from the S.-W. settled 45-60-75 km W. of Laghouat.

Laying 43 km N. of Laghouat.

18 » » — A large swarm coming from the S. settled in the douar of Saïda (M'Sila).

The swarm reported on 14th at Sidi-Aïssa departed towards the S. E.

A small swarm settled 35 km E. of Géryville.

A small yellow swarm alighted 25 km N.-E. of Djelfa and departed on 19th towards the N.

Laying 45-87 km W. of Laghouat.

Migrating hoppers 8 km S. and 9 km. S. of Ghardaïa.

19 » » — A small swarm coming from the S. settled in the douar of Bouaiche (Boghari).

A small yellow swarm observed 30 km S. of Charef (Djelfa).

20 » » — A swarm coming from the S.-E. settled on 100 ha in the douar of Oued Djenane 12 km S.-E. of Aumale.

A large swarm settled 30 km S.-S.-E. of Aflou.

21 » » — Swarms reported passing over the douar of Trouzient (Khenchela).

Slight laying in the douar of Oued Taga (Arris).

22 May 1932 — A swarm settled on 20 ha in the douar of Sidi-Aïssa. Copulation.
A swarm settled on 100 ha in the douar of Sidi-Aïssa (Sidi-Aïssa).
23 » » — A swarm coming from Tunisia settled at Azel Ben Falia (Tébessa).
A swarm coming from the S.-W. settled 65 km N.-N.-W. of Géryville.
24 » » — Swarms reported at Sidi-Aïssa departed towards the W.-E. and N.
Laying over 100 ha.
25 » » — A swarm settled and laid over 6 ha in the douar of Ouled Ziam (St.-Arnaud).
A swarm coming from the S. settled 17 km from Aumale over 20 ha. Copulation and laying.
A swarm coming from the S.-W. settled 86-75 km N.-N.-W. from Géryville. Copulation.
Hatchings 43 km S.-E, of M'Sila.
Migrating hoppers 20 km N. of Ouargla.
26 » » — Hatchings in the douar of Bitam (Barika).
27 » » — A small swarm settled in the region of Colomb-Béchar.
A swarm over Beni Isguen (Ghardaïa).
A medium-sized swarm alighted in the Oued Djelal (Khenchela).
28 » » — Swarms settled in the vicinity of Aïn-Dibla (Tébessa).
29 » » — Hatchings in the douars of M'doukal and Metkaouak (Barika).

TUNISIA.

6 May 1932 — Small swarms 60 km S.-E. of Thala departed towards the N.
7 » » — A swarm from the S. alighted 50 km W. of Thala and departed the following days towards the N. and E.
8 » » — A small swarm coming from the W. settled 35 km S.-W. of Thala.
Laying 16-20 km N.-W. of Sousse.
9 » » — A swarm coming from the S. passed 40 km S.-E. of Maktar.
10 » » — A swarm alighted 10-12 km. S.-W. of Bizerta and departed towards the E.
A swarm from the S. settled 40 km. N.-W. of Sousse.
A small swarm was destroyed 40 km S. of Thala.
Laying 40 km N.-W. of Sousse.
11 » » — A swarm from the S.-W. settled 35 km. S.-S.-W. of Thala.
12 » » — A swarm 46 km N.-N-.W. of Sousse flying W.-N.-W.
A swarm coming from the Kairouan settled 45 km S.-E. of Maktar.
A swarm settled 35 km S.-E. of Maktar.
Laying 55 km S.-S.-W. of Thala.
Hatchings 60 km S.-W. of Sousse of eggs laid on 18 April.
13 » » — A swarm passed 13 km S.-E. of Maktar.

15 May 1932 — Laying 60 km N.-N.-W. of Sousse.
17 » » — A swarm coming from Kairouan settled 18 km E. of Maktar.
20 » » — A swarm settled 18 km E. of Maktar departed towards Siliana.
25 » » — Hatchings 5 km W. of the frontier in the neighbourhood of the post of Négrine.

MOROCCO.

1 May 1932 — A yellow swarm covering 2 sq. km. 36 km N.-W. of Marrakech.
Hatchings over 40 ha 16 km W.-N.-W., over 30 ha 12 km N.-N.-E., over 20 ha 2 km N., over 30 ha 5 km S.-W., over 20 ha 26 km W. of Demnat.
Hatchings 8 km W. of Demnat, 26 km E.-S.-E. and 30 km S.-E. from El Kalaa.
2 » » — Hatchings over 4000 ha in the region of Tadla and Beni-Mellal.
3 » » — A yellow and brown swarm covering 4 sq. km 16 km S.-E. of Safi.
Swarms 27 km and 29 km S.-S.-W. of Taounat (Fez Nord).
Slight laying 29 km S.-S.-W. of Taounat.
4 » » — A small swarm 15 km S.-W. of Beni Mellal.
A sparse swarm 18 km N.-E. of Souk El Arba of Tissa.
Laying over 100 ha 31 km S. and over 225 ha 37 km S. of Marrakech.
5 » » — Hatchings 26 km S.-E. and 28 km S.-E. of El Kalaa.
6 » » — A brick red swarm covering 3 sq. km settled 68 km N. of Missour (East Morocco).
Hatchings 8 km E. of Beni Mellal.
Migrating hoppers 14 km E.-N.-E. of Beni Mellal.
7 » » — A swarm from the S. 42 km S.-S.-E. of Amizmiz.
A small swarm 19 km W.-S.-W. of Taounat.
Hatchings 32 km W.-S.-W., 42 km W.-S.-W., 30 km. W.-S.-W. and 44 km W.-S.-W. of Demnat.
Hatchings 16 km E. of Aït Ourir.
Hatchings 17 km N. and 14 km N.-N.-W. of Zerekten.
8 » » — Hatchings 26 km E.-S.-E. of El Kelaa.
9 » » — A swarm settled to the S. of Safi moved to 12 km S. of Safi.
A very large and dense swarm near Amizmiz.
A sparse swarm settled 16 km E. of Ghafsai.
Laying 15 km S.-E. of Amizmiz.
Laying over 150 ha 36 km S., over 50 ha 37 km S., over 250 ha 39 km S., over 50 ha 41 km S., and over 150 ha 44 km S. of Marrakech.
Hatchings over 50 ha 30 km W.-N.-W. of Sidi Chiker.
Hatchings 50 km S. of Tamanar.
Hatchings 23 km S. of El Kelaa.
10 » » — A small swarm settled 39 km N.-W. of Taza.
Laying over 1400 ha 28 km S., over 400 ha 31 km S.-E., over 600 ha 31 km S.-S.-E. of Marrakech.
Migrating hoppers 11 km E., 14 km E., 13 km S.-S.-E. and 17 km from Tadla.

11 May 1932 — Laying over 2500 ha 30 km S.-S.-E., over 1200 ha 32 km S. of Marrakech.

13 » » — Sparse swarms 12 km W., 6 km E., 6 km N., 13 km E. and 14 km E.-S.-E. of Ghafsaï (62 km N. of Fez).
Hatchings over 50 ha 24 km N.-N.-W., over 100 ha 23 km N. of Zerektene.
Migrating hoppers 20 km S.-W. of Beni Mellal.

14 » » — A small yellow swarm settled 7 km S.-E. of Ghafsar.
Laying over 350 ha 23 km S., over 350 ha 32 km S.-S.-W. and over 1800 ha 24 km S. of Marrakech.
Migrating hoppers 30 km S. of Imouzer.

15 » » — Laying over 160 ha 38 km E.-N.-E. of Marrakech.

17 » » — A swarm covering 1600 ha settled 16 km N.-N.-E. of Amizmiz.
A sparse swarm 56 km N.-W. of Taza. Laying.
A swarm covering 100 ha 23 km S. of Marrakech.
Laying over 600 ha 35 km N.-N.-E and 44 km N.-E. of Tiznit.

18 » » — A swarm covering 20 ha settled 40 km W.-S.-W. of Demnat.
A sparse swarm settled 40 km N.-W. of Taza.
A swarm going N. settled 64 km W.-S.-W. of Ouarzazat.
Laying over large areas in the region of Tiznit.
Laying over 50 ha 5 km N. of Aïr Ourir.
Hatching over 500 ha 11 km S.-S.-W., over 100 ha N.-E. of Aïn-Ourir, over 200 ha 36 km W.-S.-W. of Demnat.

19 » » — Hatchings over 250 ha 13 km S.-W. of Aïr Ourir.
Hatchings in the vicinity of Ksiba at Tadla.
Hatchings over 100 ha 300 km E. of Marrakech
Migrating hoppers 12 km N. of Demnat.

20 » » — Hoppers migrating to the S. and E. of Ksiba.

21 » » — A small swarm 42 km S.-S.-E. of Amizniz.
6 small swarms 8 km and 11 km S.-E. of Demnat.
Hatchings over 800 ha 30 km S.-E. of Marrakech.

22 » » — A swarm covering 4 × 2 km coming from the S. settled 21 km S.-S.-W. of Demnat.

23 » » — Hatchings 19 km E.-S.-E. of Amizniz.
Hatchings over 2000 ha 32 km S. of Marrakech.

25 » » — Hatchings over 500 ha 8 km E., over 400 ha 19 km E.-S.-E. of Aït Ourir.
Hatchings over 300 ha 25 km N.-E. of Amizniz.
Hatchings over 325 ha 35 km S. of Marrakech.

26 » » — Hatchings over 1800 ha 31 km S.-E. of Marrakech.
Migrating hoppers over 500 ha 5 km N.-W of Sidi Lamine.

27 » » — Hatchings over 205 ha 30 km S.-E. of Marrakech.

28 » » — Laying over 100 ha 10 km E.-S.-E. of Demnat.
Hatchings in the valley of the Oued N'fis (Goud Atlas).
Hatchings over 1850 ha in the region of Marrakech.

French West Africa: Tropical Migratory Locust (*Locusta migratorioides*) (1).

FRENCH SUDAN.

12 April 1932 — Swarm at Bamako (samples identified).

DAHOMEY.

2 March 1932 — Swarm at Bassila (Djougou) flying W.
3 » » — Swarm at Djougou flying S.-W.
4 » » — Swarm at Savalou flying E.
14 » » — Swarm at Natitingou flying N.-W.
21 » » — Swarm at Parakou flying E. (Samples identified).

Algeria: Moroccan Locust (*Dociostaurus maroccanus*) (1).

1-4 May 1932 — Hatchings at 30 km N. E. of Rocher de Sel (Djelfa).
14 » » — Hatchings over 1 are 10 km. S. W. of Charef (Djelfa). A few scattered hoppers have been identified having come from Frenda and Boghari.

Australia: A Disease of Citrus Recorded in New South Wales for the First Time (2).

A disease of citrus with which a species of *Septoria* is constantly associated was recorded in this State for the first time last season. It is at present confined to one small isolated inland citrus area, but appears to be of potential importance.

The disease is known to attack oranges and lemons, both fruit and foliage, but not the twigs; the fruit lesions appearing in winter as the crop is approaching maturity.

There is a probability that the fungus concerned is identical with *Septoria depressa* which McAlpine recorded on oranges and lemons in Victoria in 1899, but nothing is known in reference to the aetiology or control of the disease here.

Eritrea: Locusts (3).

During April and May 1932 no locusts were reported in the Colony.

Poland: Tests of Resistance to Potato Wart Disease (*Synchytrium endobioticum*) (4).

Following on an outbreak of potato wart disease in certain districts of West Poland, trials were conducted on the resistance of potato varieties. The experi-

(1) Communication from the Government General of Algeria (Direction des Services Economiques) to the International Institute of Agriculture.

(2) Communication from the official correspondent of the Institute, Mr. R. J. NOBLE, M. Sc., B. Sc. Agr., Ph. D., Biologist, Department of Agriculture, Sydney, New South Wales.

(3) Communication from the official correspondent of the Institute, Dr. A. DE BENEDICTIS, Chief of the Agricultural Bureau of Eritrea, transmitted by the Government of the Colony.

(4) Communication from the official correspondent of the Institute, Dr. L. GARBOWSKI, Chief of the Plant Disease Section, National Agricultural Institute, Bydgoszcz.

ments were undertaken by the Plant Disease Section of the National Agricultural Institute at Bydgoszcz and carried out from 1928 at the Phytopathological Laboratory of the Institute and from 1929 also in an infected field at Rzadkowo in the district of Chodziez, Posnania.

The following are some of the results of general interest. We first succeeded in perfecting the process for infection of sprouting tubers by means of summer sporangia by the method of Miss Glynne of Rothamsted, which made it possible to determine a susceptibility to infection towards the 10th or 14th day. We were then able to verify the resistance of certain potato varieties of German origin (' Arnika ', ' Erdgold ', ' Favorit ', ' Hindenburg ', ' Jubel ', ' Juli ', ' Parnassia ', ' Pepo ', ' Rosafolia ') and to prove the resistance of certain Polish varieties (' Lech ', ' Magdalenki ', ' Prezydent Narutowicz ', ' Wita ', ' Wloszanowskie No. 12 , ' Wloszanowskie No. 112 '). On the other hand certain varieties of German origin, namely: ' Cellini ', ' Max Delbrück ', ' Sickingen ' and ' Roland I ', which were supposed to be resistant to wart disease were found susceptible to infection in the laboratory and in the field. The variety ' Kuckuck ' became badly infected in the laboratory but was resistant in the field.

LEGISLATIVE AND ADMINISTRATIVE MEASURES

Colombia (Republic of). — The *Boletín de Agricultura* (Bogotá, marzo y abril de 1932, año V, núms. 3 y 4, págs. 154 a 174), organ of the ' Ministerio de Industrias ', publishes under the title of ' Reglamentación sanitaria vegetal ' all the regulations adopted by the Government concerning importation of plants, plant parts and seeds into the Republic and concerning their application by the officials of the Service for Inspection and Phytosanitary Control.

A list is given of the plants and plant parts coming from given countries which may not be directly imported by private persons, with in each case the reason for the restriction.

A register has been instituted at the ' Departamento de Agricultura del Ministerio de Industrias ' in which are inscribed, in alphabetical order and with the details considered necessary, the names of the individuals, firms and commercial companies sending to Colombia seed of market and forage plants, palms, trees, climbing and flowering plants, duly certified as healthy by the competent authorities of the country of origin. A list is given of the species belonging to these various classes of plants.

The rules are also given which are to be observed in importing plant material other than seeds, or seeds other than those included in the preceding list, or of seeds coming from firms not entered in the above-named register.

France. — By Decree of 21 May 1932 in modification of article 1 of the Decree of 18 April 1932 [see this *Bulletin*, 1932, No. 5, p. 80] importation into France of living plants, rhizomes, and bulbes of all sorts coming from the Netherlands is allowed. (*Journal Officiel de la République Française*, Paris, 26 mai 1932, LXIV^{ème} année, n^{o} 122, p. 5442).

*** By Decree of 23 May 1932 as from the date fixed by Decree of the Minister of Agriculture, importation and transit of potatoes, tomatoes and aubergines coming from Belgium are forbidden in France.

As an exceptional measure importation of seed potatoes coming from Belgium may be authorised in accordance with conditions fixed by Decree of the Minister of Agriculture. (*Ibid.*, p. 5440).

*** By Ministerial Decree of 23 May 1932 the provisions of the said Decree of 23 May 1932 came into force as from the date of publication of the *Journal Officiel*, viz, 26 May 1932. (*Ibid.*, p. 5440).

*** A further Ministerial Decree of 23 May 1932 authorises the importation of seed potatoes, allowed as an exceptional measure by the Decree of 23 May 1932, in the conditions already fixed for other countries by Ministerial Decree of 18 April 1932 [see this *Bulletin*, 1932, No. 5, p. 80]. (*Ibid.*, p. 5440-5441).

*** By Ministerial Decree of 23 June 1932 the restrictions contained in article 1 of the Decree of 8 March 1932 [see this *Bulletin*, 1932, No. 4, p. 57] concerning measures to prevent introduction of the San Jose scale (*Aspidiotus perniciosus*) into France, are made applicable to consignments coming also from Chile. (Ministère de l'Agriculture. Direction de l'Agriculture. *Bulletin de l'Office de Renseignements Agricoles*, Paris, 1er juillet 1932, année 1932, nº 13, p. 292).

Italy. — Ministerial Circulars Nos. 245 of 23 April 1932 and 247 of 28 April 1932 addressed to the Directors of the Royal Phytopathological Observatories, contain respectively the regulations to be observed for exportation of potatoes to Hungary and of raw cherries to Germany and Holland. (*Bollettino Ufficiale del Ministero dell'Agricoltura e delle Foreste*, Roma, 16 maggio 1932, anno IV, n. 10, pp. 1462-1463, 1465-1467).

RECENT BIBLIOGRAPHY

ESCHERICH, K. Das Vorkommen forstschädlicher Insekten in Bayern. III. Bericht: Das Jahr 1929. *Forstwissenschaftliches Centralblatt*, Berlin 1932, 54 Jahrg., Heft 8, S. 299-309, Abb. 1-3; Heft 10, S. 317-332, Abb. 4-11.

[*Cicindela hybrida, Melolontha, Cetonia floricola, Agrilus biguttatus, Niptus hololeucus, Lyctus linearis, Hylobius abietis, Pissodes piniphilus, P. piceae, Magdalis frontalis, Ipidae, Tetropium luridum, T. fuscum, Acanthocinus aedilis, Hylotrupes bajulus, Chrysomelidae, Argyresthia illuminatella, Chimabacche fagella, Cacoecia podana, Laspeyresia strobilella, Dioryctria splendidella, Crambus pradellus, Fidonia piniaria, Cheimatobia brumata, Hibernia defoliaria, Ch. boreata, Phigalia pedaria, Panolis flammea, Agrostis vestigialis, Lymantria monacha, Lithosia deplana, Orgyia gonostigma, Porthesia similis, O. pudibunda, Liparis dispar, Phalera bucephala, Sphinx pinastri, Lophyrus rufus, Nematus abietinus, Lyda hieroglyphica, Chlorops* spp., *Cecidomyia brachyntera, Lachninae, Lachnus fagi, Prociphilus* (*Pemphigus*) *poschingeri, Chermesinae, Coccus* (*Cryptococcus*) *fagi*].

FENAROLI, L. Gli olmi. *L'Alpe*, Firenze, 1932, anno XIX, n. 4-5, pp. 119-127, 10 figg.

[Short account of the diseases and parasites of the elm. *Graphium Ulmi, Galeruca luteola* and *Eccoptogaster* spp. are recorded as the most serious].

FIFE, J. M. A method of artificially feeding the sugar-beet leaf hopper. *Science*, Lancaster, Pa., 1932, New Series, Vol. 75, No. 1948, pp. 465-466, figs. 1-2.
[*Eutettix tenellus*].

FISCHER, ROBERT. Die wichtigsten Pilzkrankheiten der Dahlien. *Gartenzeitung*, Wien 1932, Nr. 1, S. 6-8, Fig. 7.
[*Botrytis cinerea, Entyloma Dahliae, Erysiphe* spp., *Pseudomonas tumefaciens, Fusarium* spp., *Sclerotinia sclerotiorum, Verticillium Dahliae*].

FLUKE, C. L., GRABER, L. F., and KOCH, KARL. Populations of white grubs in pastures with relation to the environnement. *Ecology*, Brooklyn, N. Y., 1932, Vol. XIII, No. 1, pp. 43-50, figs. 1-5.
[*Phyllophaga* spp].

FRIEDRICHS, G. Die Kurznassbeizung des Saatgetreides mit dem Dauerbeizer " Germator ". *Landwirtschaftliche Zeitung für Westfalen und Lippe*, Münster i. W. 1932, 89. Jahrg., Heft 6, S. 102-104, Abb. 1-2.

GARD, M. Gels d'automne, diastases oxydantes et dépérissement de plantes en pleine végétation. *Comptes rendus hebdomadaires des séances de l'Académie des Sciences*. Paris, 1932, tome 194, nº 14, p. 1184-1187.

GILLIATT, F. C. Life-history and habits of the three-lined leaf roller, *Pandemis limitata* Rob., in Nova Scotia. *Scientific Agriculture*, Ottawa, Canada, 1932, Vol. XII, No. 8, pp. 506-521, pls. 1-3.
[With summary in French].

GLEISBERG, W., und MENTZEL, FR. Prüfung von Apparaten zur Herstellung von Leimringen. *Die Technik in der Landwirtschaft*, Berlin 1931, 12. Jahrg., Nr. 11, S. 287-289, Abb. 1-7.

GLENDON HILL, A. Note sur le rendement en cannes et le Phytalus. *La Revue Agricole de l'Ile Maurice*, Maurice, 1932, nº 61, p. 6, graphs I-II.
[*Phytalus smithi*].

GOFFART, H. Versuche zur Bekämpfung der Kohlfliege (*Phorbia brassicae* Bché.) mit Naphthalin. *Anzeiger für Schädlingskunde*, Berlin 1932, VIII. Jahrg., Heft 4, S. 44-45.

HARMAN, S. W. Control of hibernating caterpillars of the eye-spotted bud-moth in apple orchards. *New York State Agricultural Experiment Station. Bulletin No. 600*, Geneva, N. Y., 1931, 18 pp., 5 figs.
[*Spilonota ocellana*].

HENGL, F., RECKENDORFER, P., und BERAN, F. Zur Verwendung von Arsen- und Bleimitteln in der Rebschädlingsbekämpfung. *Wein und Rebe*, Mainz 1932, 13. Jahrg., Nr. 12, S. 459-468. Literatur, S. 467-468.

HERBERT, FRED W., und HUBBARD, JAMES W. Verticillium wilt (hadromycosis) of cotton in the San Joaquin Valley of California. *United States Department of Agriculture. Circular No. 211*, Washington, D. C., 1932, 8 pp., 3 pls.
[*Verticillium albo-atrum*].

HUSZ, BÉLA. Adatok a magyar búza rozsdakérdéséhez. *Mezögazdasági Kutatások*, Budapest, 1932, V. évf., 3. sz., 75-112 o., 5 ábra, 1 színes tábla. Szakirodalom, 83 o., 111 o.
[In Hungarian, with title and summary also in English. Contribution to the study of the rusts of Hungarian wheat. *Puccinia triticina* and *P. graminis* are the most important species; *P. glumarum* is less serious].

HUTSON, J. C. Section VII. Insect pests and green manuring. *The Tropical Agriculturist*, Peradeniya, Ceylon, 1932, Vol. LXXVIII, No. 3, pp. 129-146, pls. I-VI. References, p. 146.

[IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY]. The root-infesting eelworms of the genus Heterodera. A bibliography and host list. Compiled and published by the Imperial Bureau of Agricultural Parasitology, Winches Farm, Hatfield Road, St. Albans, England, 1931, pp. VIII + 99, 2 pls.

[IMPERIAL MYCOLOGICAL INSTITUTE]. Mycologists resident in the British Empire, 1932. Issued by the Imperial Mycological Institute, Kew, Surrey, The Imperial Mycological Institute, 1932, 21 pp.

ISSAJEV, S. Insects injurious to onion at Rostov district. I. *Bulletin of the Institute for Controlling Pests and Diseases*, Leningrad, 1931, No. 1, pp. 25-53, figs. 1-40.
[In Russian, with title also in English].

IVANOV, S. M. Determination of the frost resistance of plants from the changes induced by frost injury in the electrical conductivity of the sap. *Bulletin of Applied Botany, of Genetics and Plant-Breeding*, Leningrad, 1931, Vol. XXVII, No. 5, pp. 283-307, figs. 1-2.
[In Russian, with title and summary in English].

JAVORONKOVA, IRAVADE P. Bacterial root rot of red clover, alfalfa and lentil caused by Bacterium radiciperda n. sp. *Bulletin of Plant Protection*, Leningrad, 1932, Vol. V, No. 1, pp. 161-172, pls. XVII-XX. [Literature cited], p. 170.
[In Russian, with title and summary in English. The new species is described also in English].

JENNES, J. De coloradokever. *Onze Ploeg*, Leuven 1932, elfde jaarg., Nr 5, blz. 129-135.
[*Leptinotarsa decemlineata*].

JOHNSTON, H. B. Notes on two locusts of minor economic importance in the Sudan. *Bulletin of Entomological Research*, London, 1932, Vol. XXIII, Pt. 1, pp. 49-64.
[*Anacridium moestum, Cyrtacanthacris tatarica*].

JONES, LINUS H. The effect of environment on the nematode of the tomato gall. *Journal of Agricultural Research*, Washington, D. C., 1932, Vol. 44, No. 3, pp. 275-285, fig. 1. Literature cited, pp. 284-285.
[*Heterodera radicicola*].

KING, H. H., and RUTTLEDGE, W. On experiments in the use of poison dusts against adult *Locusta migratorioides*, Reh. and Frm., in the Sudan. *Bulletin of Entomological Research*, London, 1932, Vol. XXIII, Pt. 1, pp. 65-68.

KÖCK, GUSTAV. Beachtenswerte Pilzkrankheiten in Korbweidenkulturen und ihre Bekämpfung. *Wiener Allgemeine Forst-und Jagd-Zeitung*, Wien 1932, 50. Jahrg., Nr. 17, S. 99.
[*Melampsora* spp., *Rhytisma salicinum*].

KOVAČEVIĆ, Ž. Die Verbreitung von *Aphelinus mali* in Jugoslavien. *Anzeiger für Schädlingskunde*, Berlin 1932, VIII. Jahrg., Heft 3, S. 29-31, Abb. 2.

KOZHANTSCHIKOV, I. A contribution to biology and morphology of Erythroneura parvula Boh. (Typhlocybinae, Jassidae) injurious to vine-stock in Azerbeidzhan. *Bulletin of the Institute for Controlling Pests and Diseases*, Leningrad, 1931, No. 1, pp. 85-99, figs. 1-2.
[In Russian, with title also in English].

Kuhn, I. Biologischer Daseinskampf zwischen Unkraut und Kulturpflanze. *Mitteilungen der Deutschen Landwirtschafts-Gesellschaft*, Berlin 1932, 47. Jahrg., Stück 1, S. 7-8.

Kuwana, Inokichi. The genus Aclerda in Japan including Formosa. *The Philippine Journal of Science*, Manila, 1932, Vol. 48, No. 1, pp. 57-67, figs. 1-4. Literature cited, p. 66.
[*Aclerda tokionis, A. takahashii, A. biwakoensis*].

Kuwana, Inokichi. Two new conifer-infesting scale insects from Japan. *The Philippine Journal of Science*, Manila, 1932, Vol. 48, No. 1, pp. 51-55, figs. 1-3.
[*Aspidiotus makii* n. sp. on *Pinus luchuensis* and *A. pseudomeyeri* n. sp. on *Juniperus chinensis*. Descriptions in English].

Lathrop, F. H., and Nickels, C. B. The biology and control of the blueberry maggot in Washington County, Me. *United States Department of Agriculture. Technical Bulletin No. 275*, Washington, D. C., 1932, 77 pp., 30 figs., 14 pls. Literature cited, pp. 75-76.
[*Rhagoletis pomonella*].

Leach, J. G. Blackleg disease of potatoes in Minnesota. *University of Minnesota. Agricultural Experiment Station. Technical Bulletin 76*, University Farm, St. Paul, 1931, 36 pp., 16 figs. Literature cited, pp. 34-36.
[*Erwinia carotovora*].

Le Pelley, Richard H. *Lygus simonyi*, Reut. (Hem. Capsid.), a pest of coffee in Kenya Colony. *Bulletin of Entomological Research*, London, 1932, Vol. XXIII, Pt. 1, pp. 85-99, figs. 1-2, pl. VII.

Lequertier, Roger. Le doryphore de la pomme de terre. *Revue Générale d'Horticulture*, Paris, 1932, 10e année, nº 107, p. 51-54, 4 fig.
[*Leptinotarsa decemlineata*].

Lesne, Pierre. Le doryphora de la pomme de terre. *Journal d'Agriculture Pratique*, Paris, 1932, 96e année, nº 8, p. 153-156, fig. 1-2, 1 pl. en coul.
[*Leptinotarsa decemlineata*].

Loureiro Ferreira, M. J. Dois casos de patologia da oliveira. *Revista Agronomica*, Lisboa, 1931, año XIX, nº 2, pag. 57-63, 1 fig., 1 estampa.
[Discusses damage caused to the olive by wind and reports *Stictis Panizzei* on this tree for the first time in Portugal].

Mackie, W. W., and Esau, Katherine. A preliminary report on resistance to curly top of sugar beet in bean hybrids and varieties. *Phytopathology*, Lancaster, Pa., 1932, Vol. 22, No. 3, pp. 207-216, figs. 1-6.
[Virus disease].

MacGill, Elsie I. The biology of *Erythroneura* (*Zygina*) *pallidifrons*, Edwards. *Bulletin of Entomological Research*, London, 1932, Vol. XXIII, Pt. 1, pp. 33-43, figs. 1-6. References, pp. 42-43.
[Causes damage to plants under glass].

MacLagan, D. Stewart. An ecological study of the " lucerne flea " (*Smynthurus viridis*, Linn.) — I. *Bulletin of Entomological Research*, London, 1932, Vol. XXIII, Pt. 1, pp. 101-145, graphs 1-13. References, pp. 144-145.

MAKLAKOVA, GALINA PH. Contributions to the study of the development of fumaginaceous fungi on the tangerine trees in the district of Batum (Caucasus). *Bulletin of Plant Protection*, Leningrad, 1932, Vol. V, No. 1, pp. 97-110, pl. XII. [Literature cited], p. 110.
[In Russian, with title and summary in English].

MALENOTTI, ETTORE. Verso il meglio, contro le grillotalpe. *Il Coltivatore e Giornale Vinicolo Italiano*, Casale Monf., 1932, anno 78° e 58°, n. 22, pp. 601-603.
[Reports the efficacy of bait poisoned with 5 % barium fluorosilicate].

MALZEV, A. I. Weeds of the cotton plant. *Bulletin of Applied Botany, of Genetics and Plant-Breeding*, Leningrad, 1931, Vol. XXVI, No. 5, pp. 287-330, figs. 1-16.
[In Russian, with title also in English].

MARCHIONATTO, JUAN B. Notas críticas sobre la presencia de la " Puccinia glumarum " en la República Argentina. *Physis*, Buenos Aires, 1931, tomo X, n° 37, pags. 362 a 367.

† MARRO, MARCO, e SUCCI, ANTONIO. Coltivazione dei cereali. (Nuova Enciclopedia Agraria Italiana. Parte quinta). Torino, Unione Tipografico Editrice Torinese, 1931, VII-774 pp., 309 figg.
[The contents include:—
Avversità, nemici, malattie [del frumento], pp. 84-100, figg. 43-77 (Prof. Marro).
Malattie e cause nemiche [della segala], pp. 181-182, figg. 139-140 (Prof. Succi).
Malattie principali [dell'orzo], p. 201, fig. 150 (Prof. Succi).
Malattie [dell'avena], pp. 234-235, fig. 162 (Prof. Succi).
Malattie e cause nemiche del mais, pp. 697-756, figg. 272-309 (Prof. Succi)].

MAYNE, W. WILSON. Physiological specialisation of *Hemileia vastatrix* B. et Br. *Nature*, London, 1932, Vol. 129, No. 3257, p. 510, fig. 1.

METZGER, F. W., and GRANT, D. H. Repellency to the Japanese beetle of extracts made from plants immune to attack. *United States Department of Agriculture. Technical Bulletin No. 299*, Washington, D. C., 1932, 21 pp., 3 figs.
[*Popillia japonica*].

MILES, HERBERT W. Biological studies of sawflies infesting *Ribes*. *Bulletin of Entomological Research*, London, 1932, Vol. XXIII, Pt. 1, pp. 1-15, 1 diagr., pls. I-V.
[*Pteronidea ribesii, P. leucotrochus, Pristiphora pallipes*].

NAOUMOVA, N. A. Stem spot of flax caused by Ascochyta linicola Naoum. et Wassil. *Bulletin of Plant Protection*, Leningrad, 1932, Vol. V, No. 1, pp.141-160, figs. 1-3, pls. XV-XVI. [Literature cited], p. 159.
[In Russian, with title and summary in English].

NEWCOMER, E. J., and YOTHERS, M. A. Experiments with insecticides for codling-moth control. *United States Department of Agriculture. Technical Bulletin No. 281*, Washington, D. C., 1932, 28 pp., 7 figs., 4 pls. Literature cited, p. 28.
[*Carpocapsa pomonella*].

NICHOLLS, H. M. How the lucerne flea is introduced. *The Tasmanian Journal of Agriculture*, Tasmania, 1932, Vol. III, No. 2, p. 68.
[*Smynthurus viridis*].

NICHOLLS, H. M. The Rutherglen bug. *The Tasmanian Journal of Agriculture*, Tasmania, 1932, Vol. III, No. 2, pp. 51-53.
[*Nysius vinitor*].

PALAZZOLI, R. Nouveau traitement contre la mouche des fruits (cératite). *Bulletin de la Société d'Horticulture de Tunisie*, Tunis, 1932, 30me année, nº 285, p. 64.
[*Ceratitis capitata*].

PARIEVSKAIA, A. P. On the resistence of Russian and foreign sorts of hemp to Orobanche ramosa. *Bulletin of Plant Protection*, Leningrad, 1932, Vol. V, No. 1, pp. 73-84, fig. 1, pl. XI. [Literature cited], pp. 83–84.
[In Russian, with title and summary in English].

PEKLO, J. Obtention de blés résistants aux rouilles en Tchécoslovaquie. *Revue de Botanique Appliquée et d'Agriculture Tropicale*, Paris, 1932, 12e année, Bulletin nº 128, p. 285-291.

PERROT, EM. Les sauterelles et le pyrèthre (Chrysanthème insecticide). *Revue de Botanique Appliquée et d'Agriculture Tropicale*, Paris, 1932, 12e année, Bulletin nº 128, p. 282-285.
[*Chrysanthemum cinerariaefolium*].

POTAPOV, A. Control of Asiatic locust by aeroplane dusting in Daghestan in 1930. *Bulletin for the Institute for Controlling Pests and Diseases*, Leningrad, 1931, No. 1, pp. 9-24, figs. 1-4.
[In Russian, with title also in English. *Locusta migratoria*].

PRISIASHNUK, A. A. Contributions to the study of Fusarium diseases of cereal crops. *Bulletin of Plant Protection*, Leningrad, 1932, Vol. V, No. 1, pp. 173-200. [Literature cited], pp. 199-200.
[In Russian, with title and summary in English].

PŠTROSS. Die Kräuselkrankheit des Rebstockes. *Landwirtschaftliche Fachpresse*, Tetschen 1932, 10. Jahrg., Nr. 16, S. 113-114, Abb. 1-2.
[*Phyllocoptes vitis*].

PUECHER PASSAVALLI, L. Le principali malattie degli aceri, dei frassini e dei noci. *L'Alpe*, Firenze, 1932, anno XIX, n. 4-5, pp. 162-168, 5 figg.
[*Rhytisma acerinum, Uncinula Aceris, Leptothyrium acerinum, Pestalozzia Hartigii, Cercospora acerina, Polyporus squamosus, Nectria ditissima, N. cinnabarina, Euproctis chrysorrhoea, Lymantria dispar, Hybernia defoliaria, Malacosoma neustria, Acronycta aceris, Phyllobius oblongus, Rhynchites betulae, R. tristis, Cossus cossus, Zeuzera pyrina, Cerambyx scopolii, Xyleborus saxeseni, X. dispar, Pediaspis aceris*, on maples; *Phytophthora omnivora, Pestalozzia Hartigii, Phyllactinia suffulta, Cercospora Fraxini, Polyporus hispidus, Nectria cinnabarina, N. ditissima, Lytta vesicatoria, Tomostethus melanopygus, Cionus fraxini, Pemphigus nidificus, Hylesinus fraxini, Platypus cylindrus*, on species of ash; *Gnomonia Juglandis, Microstroma Juglandis, Bacterium Juglandis, Polyporus hispidus, Fomes igniarius, Cheimatobia brumata, Saturnia pyri, Dasychira pudibunda, Peritelus griseus, Cossus cossus, Zeuzera pyrina, Cerambix cerdo, Saperda scalaris, Balaninus nucum, Carpocapsa amplana, C. splendana* var. *reaumurana*, on the walnut].

PUECHER PASSAVALLI, LUIGI. I principali parassiti fungini ed animali dell'asparago e mezzi per combatterli. Parte seconda. I parassiti animali dannosi all'asparago. *Bulletino della R. Società Toscana di Orticultura*, Firenze, 1932, anno LVII, nn. 3-4, pp. 51-57, 5 figg.
[See this *Bulletin*, 1932, No. 2, p. 34. *Curtilla gryllotalpa, Melolontha vulgaris, M. hippocastani, Agrotis exclamationis, A. tritici* var. *aquilina, Hypopta caestrum, Agriotes lineatus, Crioceris asparagi, C. 5-punctata, C. 12-punctata, C. 14-punctata, Mamestra pisi, M. trifolii, Calocampa exoleta, Caja purpurea, Aphis rumicis, A. dianthi, Eurydema oleraceum, Platyparea poeciloptera*].

RAMSEY, G. B. Sulphur dioxide injury of tomatoes. *Phytopathology*, Lancaster, Pa., 1932, Vol. 22, No. 3, pp. 267-268, fig. 1.

REICHERT, ALEX. Entomologisches aus Miltitz 1931. *Bericht der Schimmel & Co. Aktiengesellschaft Miltitz bz. Leipzig über ätherische Öle, Riechstoffe usw.* Ausgabe 1932, Miltitz bei Leipzig, Geschäftsdruckerei der Schimmel & Co. Aktiengesellschaft, 1932, S. 155-162.

[Insect pests of *Rosa damascena*].

REKATCH, V. N. Studies on the biology and control of the corn-seed maggot (Chortophila cilicrura Rond.). *Bulletin of Applied Botany, of Genetics and Plant-Breeding*, Leningrad, 1931, Vol. XXVI, No. 5, pp. 267-285, figs. 1-8. [Literature cited], p. 283.

[In Russian, with title and summary in English].

ROARK, R. C. A digest of the literature of Derris (Deguelia) species used as insecticides, 1747-1931. *United States Department of Agriculture. Miscellaneous Publication No. 120*, Washington, D. C., 1932, 86 pp.

ROCCI, UBALDO. Sulla igroscopicità e sui cambiamenti di composizione dei melassi usati come dachicidi. *L'Industria Saccarifera Italiana*, Genova, 1932, anno XV, n. 1, pp. 5-9.

[*Dacus oleae*].

ROESER, JACOB, Jr. Transpiration capacity of coniferous seedlings and the problem of heat injury. *Journal of Forestry*, Washington, D. C., 1932, Vol. XXX, No. 4, pp. 381-395, figgs. 1-3.

RYABOV, M. A. Chief diseases and insect pests of cotton in the new regions. *Bulletin of Applied Botany, of Genetics and Plant-Breeding*, Leningrad, 1931, Vol. XXVI, No. 5, pp. 3-81, figs. 1-21. [Literature cited], p. 81.

[In Russian, with title also in English].

ŠÁMAL, JAROMIR. Tesařik Clytus (Plagionotus) arcuatus, technický ščůdce dubového dříví. Clytus (Plagionotus) arcuatus L. ravageant les chênes abattus. *Lesnická Práce*, Písek, 1932, roč. XI, č. 3, str. 113-124, obr. 1-6, 1 tab.

[In Czech, with title and summary in French].

SĂVULESCU, TR., et RAYSS, T. Influence des conditions extérieures sur le développement de *Nigrospora Oryzae* (B. et Br.) Petch, parasite du maïs en Roumanie. *Comptes rendus hebdomadaires des séances de l'Académie des Sciences*, Paris, 1932, tome 194, nº 15, p. 1262-1265.

SCHREIBER, FRITZ. Resistenzzüchtung bei *Phaseolus vulgaris*. *Phytopathologische Zeitschrift*, Berlin 1932, Bd. IV, Heft 4, S. 415-454. Schrifttum, S. 453-454.

[*Colletotrichum Lindemuthianum*].

SCHWARTZ, G. Bodendämpfung als Kulturfaktor zur Bodenverbesserung im Gartenbau. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1932, 42. Bd., Heft 5, S. 193-232, Abb. 1-3. Literaturübersicht, S. 230-232.

SERVAZZI, O. Nota sulla classificazione isto-patologica del Quanjer, delle virosi nelle patate. *Bollettino del Laboratorio Sperimentale (Regio Osservatorio Regionale) di Fitopatologia*, Torino, 1932, anno 9º, n. 2, pp. 20-24.

STEVENS, NEIL E. Market diseases of strawberries from the Southeastern States, 1926 to 1930. *United States Department of Agriculture. Circular No. 219*, Washington, D. C., 1932, 4 pp.

[*Rhizopus nigricans*].

STRANAK, FR. La mosaïque à virus de la vigne. *Bulletin International du Vin*, Paris, 1932, 5e année, nº 46, p. 55-60.
[In Czechoslovakia].

THIEM, H. Erfahrungen und Betrachtungen zur Bekämpfung der Zwetschenschildlaus (Eulecanium corni). *Die kranke Pflanze*, Dresden 1932, 9. Jahrg., Heft Nr. 1, S. 7-10.

THIEM, H. Methoden und Ergebnisse der Anfälligkeitsuntersuchungen gegen Reblaus in den staatl. Rebenprüfstellen zu Iphofen und Ingelfingen. *Wein und Rebe*, Mainz 1932, 13. Jahrg., Nr. 9, S. 348-367; Nr. 10, S. 398-404.

TITTA, G. Sopra un nuovo apparecchio per il trattamento delle cariossidi dei cereali col metodo Jensen. *Bollettino del R. Istituto Superiore Agrario di Pisa*, Pisa, 1931, vol. VII, pp. 267-273, figg. 1-5.

TRAVAINI, V. Il ciliegio ed i suoi malanni. *L'Istria Agricola*, Parenzo, 1932, anno XII (n. ser.), n. 6, pp. 115-118.
[*Gnomonia erythrostoma* and errors in cultural technique are, according to the writer, the causes of dying off of cherry trees observed in certain years in the region of Capodistria].

TRUJILLO PELUFFO, AGUSTÍN. Interesante procedimiento de lucha biológica puesto en práctica con éxito en Australia. *Ministerio de Industrias. Dirección de Agronomia. Publicación Mensual*, Montevideo, 1931, año IV, nº 3, págs. 27 a 33, 9 figs.
[*Cactoblastis cactorum* introduced from Uruguay into Australia for control of *Opuntia* spp.].

VERONA, O., e BAGNOLI, E. Aspergillosi delle cariossidi di mais. *Bollettino del R. Istituto Superiore Agrario di Pisa*, Pisa, 1931, vol. VII, pp. 55-69, figg. 1-3.
[*Aspergillus niger*].

VOGLINO, P. La marcescenza del fusto nella Araucaria imbricata. Nota preventiva. *Bollettino del Laboratorio Sperimentale (Regio Osservatorio Regionale) di Fitopatologia*, Torino, 1932, anno 9º, n. 2, pp. 17-20, figg. 1-4.
[*Fusicoccum Araucariae* Voglino n. sp. and *Cryptosporella Araucariae* Voglino n. sp. are in all probability the causal agents of this affection. Latin diagnoses of the two species are given].

ZACHER, F. Das Auftreten des Speisebohnenkäfers in Deutschland. *Nachrichtenblatt für den Deutschen Pflanzenschutzdienst*, Berlin 1932, 13. Jahrg., Nr. 4, S. 29.
[*Acanthoscelides obtectus*].

ZACHER, FRIEDRICH. Beiträge zur Kenntnis phytophager Milben. *Zoologischer Anzeiger*, Leipzig 1932, Bd. 97, Heft 7/8, S. 177-185, Abb. 1-11.
[*Paratetranychus nuptialis* n. sp., *P. brevipilosus* n. sp., *Epitetranychus fagi*, *Tenuipalpus* spp., *Tetranychus telarius*, *Bryobia pretiosa*. The two new species are described in German].

ZEINER, WALTER. Das Verhalten verschiedener Sommergersten-Kreuzungen hinsichtlich der Anfälligkeit für Ustilago nuda. *Zeitschrift für Züchtung*, Reihe A: Pflanzenzüchtung, Berlin 1932, Bd. XVII, Heft 3, S. 229-264, Abb. 1-7. Literatur, S. 263-264.

Prof. ALESSANDRO BRIZI, *Segretario generale dell'Istituto, Direttore responsabile.*